



Amendment under 37 C.F.R. § 1.111  
Serial No.: 10/798,320  
SUGHRUE MION, PLLC Ref: Q80353

### AMENDMENTS TO THE CLAIMS

**This listing of claims will replace all prior versions and listings of claims in the application:**

#### **LISTING OF CLAIMS:**

Claim 1 (currently amended):      A high speed tool steel comprising, by mass percentage, a basic composition of a 0.4-0.9% of C; an equal to or less than 1.0% of Si; an equal to or less than 1.0% of Mn; a 4-6% of Cr; a 1.5-6% in total of either or both of W and Mo in the form of  $(1/2W + Mo)$  wherein the amount of W is not more than 3%; and, a 0.5-3% in total of either or both of V and Nb in the form of  $(V + Nb)$ , wherein an average grain size of precipitated carbides dispersed in the matrix of the steel is equal to or less than  $0.5 \mu m$  and a dispersion density of the carbides is equal to or more than  $80 \times 10^3$  particles/mm<sup>2</sup>, wherein the tool steel is formed by an ingot casting process.

Claim 2 (original):      The high speed tool steel as set forth in claim 1, wherein an Ni content is equal to or less than 1 % by mass percentage.

Claim 3 (original):      The high speed tool steel as set forth in claim 1, wherein a Co content is equal to or less than 5 % by mass percentage.

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Claim 4 (original): The high speed tool steel as set forth in claim 1, wherein an Ni content is equal to or less than 1 % by mass percentage, and a Co content is equal to or less than 5 % by mass percentage.

Claims 5-10: (canceled).